SCORE Search Results Details for Application 10552515 and Search Result 20090316_112516_us-10-552-515-1.rai.

This page gives you Search Results detail for the Application 10552515 and Search Result 20090316_112516_us-10-552-515-1.rai.

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GenCore version 6.3

OM protein - protein search, using sw model

Run on: March 17, 2009, 05:01:40 ; Search time 160 Seconds
(without alignments)
1258.128 Million cell updates/sec

Title: US-10-552-515-1
Perfect score: 4950
Sequence: 1 MRMAATAWAGLQGPPLPTLC.....SELSSHWTPFTVPKASQLQQ 933

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1316349 seqs, 215321474 residues

Total number of hits satisfying chosen parameters: 1316349

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /ABSS/Data/CRF/ptodata/1/iaa/5_COMB.pep:*
2: /ABSS/Data/CRF/ptodata/1/iaa/6_COMB.pep:*
3: /ABSS/Data/CRF/ptodata/1/iaa/7_COMB.pep:*
4: /ABSS/Data/CRF/ptodata/1/iaa/H_COMB.pep:*
5: /ABSS/Data/CRF/ptodata/1/iaa/PCTUS_COMB.pep:*
6: /ABSS/Data/CRF/ptodata/1/iaa/RE_COMB.pep:*
7: /ABSS/Data/CRF/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	1531.5	30.9	920	2	US-10-104-047-2574	Sequence 2574, Ap
2	1497	30.2	956	3	US-10-912-745B-284	Sequence 284, App
3	1154	23.3	596	2	US-10-104-047-2541	Sequence 2541, Ap
4	912.5	18.4	475	2	US-10-104-047-3116	Sequence 3116, Ap
5	905	18.3	642	3	US-10-108-260A-4483	Sequence 4483, Ap
6	796	16.1	425	2	US-09-270-767-45552	Sequence 45552, A
7	684.5	13.8	483	3	US-10-108-260A-3990	Sequence 3990, Ap
8	594.5	12.0	660	3	US-10-108-260A-3644	Sequence 3644, Ap
9	455.5	9.2	257	3	US-10-100-683-7209	Sequence 7209, Ap
10	455.5	9.2	257	3	US-11-001-793-7209	Sequence 7209, Ap
11	411.5	8.3	393	3	US-09-876-997-457	Sequence 457, App
12	411.5	8.3	393	3	US-10-643-836-457	Sequence 457, App
13	396.5	8.0	215	2	US-09-270-767-61064	Sequence 61064, A
14	353	7.1	366	2	US-09-270-767-32253	Sequence 32253, A
15	353	7.1	366	2	US-09-270-767-47470	Sequence 47470, A
16	290	5.9	189	2	US-09-270-767-31816	Sequence 31816, A
17	290	5.9	189	2	US-09-270-767-47033	Sequence 47033, A
18	255.5	5.2	199	2	US-09-270-767-31722	Sequence 31722, A
19	255.5	5.2	199	2	US-09-270-767-46939	Sequence 46939, A
20	186.5	3.8	166	2	US-09-621-976-4064	Sequence 4064, Ap
21	186.5	3.8	166	3	US-10-664-025A-4064	Sequence 4064, Ap
22	117	2.4	548	1	US-08-676-279-50	Sequence 50, Appl
23	117	2.4	548	2	US-08-903-139B-8	Sequence 8, Appli
24	117	2.4	548	2	US-08-637-823B-25	Sequence 25, Appl
25	117	2.4	548	2	US-09-614-957D-25	Sequence 25, Appl
26	115.5	2.3	2013	1	US-08-324-977-12	Sequence 12, Appl
27	115.5	2.3	2013	1	US-08-384-616-12	Sequence 12, Appl
28	115.5	2.3	2013	1	US-08-904-686A-12	Sequence 12, Appl
29	115.5	2.3	2013	2	US-09-315-850-12	Sequence 12, Appl
30	115.5	2.3	3010	1	US-08-324-977-2	Sequence 2, Appli
31	115.5	2.3	3010	1	US-08-324-977-14	Sequence 14, Appl
32	115.5	2.3	3010	1	US-08-384-616-2	Sequence 2, Appli
33	115.5	2.3	3010	1	US-08-384-616-14	Sequence 14, Appl
34	115.5	2.3	3010	1	US-08-904-686A-2	Sequence 2, Appli
35	115.5	2.3	3010	1	US-08-904-686A-14	Sequence 14, Appl
36	115.5	2.3	3010	2	US-09-315-850-2	Sequence 2, Appli
37	115.5	2.3	3010	2	US-09-315-850-14	Sequence 14, Appl
38	113.5	2.3	631	3	US-10-369-493-12179	Sequence 12179, A
39	112.5	2.3	1107	3	US-11-216-782-11586	Sequence 11586, A
40	110.5	2.2	680	2	US-09-725-735A-19	Sequence 19, Appl
41	110.5	2.2	680	3	US-10-457-452-19	Sequence 19, Appl
42	108.5	2.2	523	2	US-09-949-016-11540	Sequence 11540, A
43	108.5	2.2	578	2	US-09-052-753B-7	Sequence 7, Appli
44	106	2.1	539	2	US-09-248-796A-16542	Sequence 16542, A
45	105	2.1	1089	2	US-10-012-231A-102	Sequence 102, App

ALIGNMENTS

```
RESULT 1
US-10-104-047-2574
; Sequence 2574, Application US/10104047
; Patent No. 6943241
; GENERAL INFORMATION:
;  APPLICANT: HELIX RESEARCH INSTITUTE
;  TITLE OF INVENTION: No. 6943241el full length cDNA
;  FILE REFERENCE: H1-A0105
;  CURRENT APPLICATION NUMBER: US/10/104,047
;  CURRENT FILING DATE:  2002-03-25
;  PRIOR APPLICATION NUMBER:
;  PRIOR FILING DATE:
;  NUMBER OF SEQ ID NOS: 4096
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2574
;   LENGTH: 920
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-104-047-2574

  Query Match             30.9%;  Score 1531.5;  DB 2;  Length 920;
  Best Local Similarity   37.9%;  Pred. No. 4.3e-157;
  Matches  360;  Conservative  168;  Mismatches  316;  Indels  105;  Gaps   29;

Qy          44 TSSGSHCARSRMLRRRAQEEDSTVLID----VSPPEAE-----KRGSYGST---AHASEP 91
               :|||    ::::    |  :|  :| |    || |  :       |:  ||   |   |
Db           4 SSSGITNGKTKVFHPVA--KDVNILFDELEAVSSPCKDDDSLLHPGNLTSTSDDASRLEA 61

Qy          92 GGQQAAACRAGS-----PAKPRIADFVLVWEEDLKLDRQQDSAARDRTDMHRTWRETFLD 146
               ||:        :       | || |::||: :           :  :|:     || |
Db          62 GGETVPERNKSNGLYFRDGKCRI-DYILVYRK----------SNPQTEK----REVFER 105

Qy         147 NLRAAGLCVDQQDVQDGNTTVHYALLSASWAVLCYYAEDLRLKLPLQE----LPNQASNW 202
               |:|| || ::::     |: : :  | | | ||  ||| : :::| :     || :
Db         106 NIRAEGLQMEKESSLI-NSDIIFVKLHAPWEVLGRYAEQMNVRMPFRRKIYYLPRRYKFM 164

Qy         203 S------AGLLAWLGIPNVLL--EVVPDVPP-EYYSCRFRVNKLPRFLGSDNQDTFFTST 253
               |      : |  ||    : |  | :||:   : |:  |   ::  |:   |::||| :
Db         165 SRIDKQISRLRRWLPKKPMRLDKETLPDLEENDCYTAPFSQQRIHHFI-IHNKETFFNNA 223

Qy         254 KRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQR 313
                | :|:  || :  |  | || :|:::||  |   ||||||:| :::          | |
Db         224 TRSRIVHHILQRIKY-EEGKNKIGLNRLLTNGSYEAAFPLHEGSYRSKNSIRTHGAENHR 282

Qy         314 QVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCF 373
                :|:: || || | |||||| ||||||||: |||||||:||| | ||| :|  ||| |
Db         283 HLLYECWASWGVWYKYQPLDLVRRYFGEKIGLYFAWLGWYTGMLFPAAFIGLFVFLYGVT 342

Qy         374 LVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMAL 432
                :     ::|:| : |   |||:|   |||  || :|  |:   |||:| ||||::|||:
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Db        343 TLDHSQVSKEVCQATDII-MCPVCDKYCPFMRLSDSCVYAKVTHLFDNGATVFFAVFMAV 401

Qy        433 WAVLLLEYWKRKSATLAYRWDCSDYEDTEERPRPQFAAS-APMTAPNPITGEDEPYFPER 491
              || : ||:|||: | :|| ||  |:|: ||  |||| |  :     |||:|: |||
Db        402 WATVFLEFWKRRRAVIAYDWDLIDWEEEEEEIRPQFEAKYSKKERMNPISGKPEPYQAFT 461

Qy        492 SRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIVVSRSGNTLLA-AWA-----SRIA 545
               :  |::  :  |  |: ||:  :  |::|| :         :|  |  ||     |::|
Db        462 DKCSRLIVSASGIFFMICVVIAAVFGIVIYRVVTV-------STFAAFKWALIRNNSQVA 514

Qy        546 SLTGSVV--NLVFILILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSP 603
              : ||: |  |   |::|: :|  :| :||  |  ||::::|::|||||:|:|||||  ||
Db        515 T-TGTAVCINFCIIMLLNVLYEKVALLLTNLEQPRTESEWENSFTLKMFLFQFVNLNSST 573

Qy        604 VYIAFFKGRFVGYPGNYHTLFG-VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLI 662
               ||||| ||| |:|| |  |    | |||   ||||:|  :: :||| ||  ||  |:
Db        574 FYIAFFLGRFTGHPGAYLRLINRWRLEECHPSGCLIDLCMQMGIIMVLKQTWNNFMELGY 633

Qy        663 PKLKGWWQKFRLRSKKRKAGASAGASQGPWEDDYELVPCE--GLFDEYLEMVLQFGFVTI 720
              | :: || :   |  ::: |     |   || || | |    |||||||||:||||| ||
Db        634 PLIQNWWTR---RKVRQEHGPERKISFPQWEKDYNLQPMNAYGLFDEYLEMILQFGFTTI 690

Qy        721 FVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISN 780
              |||| ||||| ||||| :|||||| ||| ::|||:| ||:|||||: || |:  |:||:|
Db        691 FVAAFPLAPLLALLNNIIEIRLDAYKFVTQWRRPLASRAKDIGIWYGILEGIGILSVITN 750

Qy        781 AFLLAFSSDFLPRAYYRW----------TRAHDLRGFLNFTLA--------------RAP 816
              ||::| :|||:||  | :               : |::| :|:
Db        751 AFVIAITSDFIPRLVYAYKYGPCAGQGEAGQKCMVGYVNASLSVFRISDFENRSEPESDG 810

Qy        817 SSFAAAHNRTCRYRAFRDDDGH-----YSQTYWNLLAIRLAFVIVFEHVVFSVGRLLDLL 871
              | |:    : |||| :||         |:  :|::|| ||||:|||||:|| :  |:  |
Db        811 SEFSGTPLKYCRYRDYRDPPHSLVPYGYTLQFWHVLAARLAFIIVFEHLVFCIKHLISYL 870

Qy        872 VPDIPESVEIKVKREYYLAKQALAENEVLFGTNGTKDEQPKGSELSSHW 920
              :||:|: :  :::|| || :: : | |:       |: :  |    : |
Db        871 IPDLPKDLRDRMRREKYLIQEMMYEAELERLQKERKERKKNGKAHHNEW 919


RESULT 2
US-10-912-745B-284
; Sequence 284, Application US/10912745B
; Patent No. 7473531
; GENERAL INFORMATION
;  APPLICANT: DOMON, Bruno et al.
;  TITLE OF INVENTION: Pancreatic Cancer Targets and Uses
;  TITLE OF INVENTION:Thereof
;  FILE REFERENCE: CL001538
;  CURRENT APPLICATION NUMBER: US/10/912,745B
;  CURRENT FILING DATE: 2004-08-06
;  NUMBER OF SEQ ID NOS: 875
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 284
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; LENGTH: 956
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-912-745B-284

  Query Match   30.2%; Score 1497; DB 3; Length 956;
  Best Local Similarity   37.6%; Pred. No. 2.7e-153;
  Matches 362; Conservative 161; Mismatches 307; Indels 132; Gaps   27;

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Qy          26 GLYCRDQAHAERWAMT--SETSSGSHCARSRMLRRRAQEEDSTVLIDVSPPEAEKRGSYG 83
               ||| ||      : :    :  ||     :| | || |  |:               |
Db          52 GLYFRDGRRKVDYILVYHHKRPSG-----NRTLVRRVQHSDTP--------------SGA 92

Qy          84 STAHASEPGGQQAAACRAGSPAKPRIADFVLVWEEDLKLDRQQDSAARDRTDMHRTWRET 143
                :     |   : |:  |||   |              :|  :|          |  ||
Db          93 RSVKQDHPLPGKGASLDAGSGEPP--------------MDYHEDD--------KRFRREE 130

Qy         144 FLDNLRAAGLCVDQQDVQDGNTTVH---YALLSASWAVLCYYAEDLRLKLPLQELPNQAS 200
               :  ||  ||| ::    :| :| :|   :  : | | |||  || |:||:| ::: :
Db         131 YEGNLLEAGLELE----RDEDTKIHGVGFVKIHAPWNVLCREAEFLKLKMPTKKMYH--I 184

Qy         201 NWSAGLLAWLGIPNVLLEVVPDVPPEYYSCR----------FRVNKLPRFLGSDNQDTFF 250
               | : |||    | :|| ::   : |:    |          |   |   |  || :|:||
Db         185 NETRGLLK--KINSVLQKITDPIQPKVAEHRPQTMKRLSYPFSREKQHLFDLSD-KDSFF 241

Qy         251 TSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRL 310
                |  |  |::||| :|     | : :||  ||| || :||:|||| :       :
Db         242 DSKTRSTIVYEILKRTTCTKAKYS-MGITSLLANGVYAAAYPLHDGDY-----NGENVEF 295

Qy         311 NQRQVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLV 370
               | |::|:: |||:| : ||||:| ||:|||||: ||||||| ||  |:||::|| :|||
Db         296 NDRKLLYEEWARYGVFYKYQPIDLVRKYFGEKIGLYFAWLGVYTQMLIPASIVGIIVFLY 355

Qy         371 GCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLF 429
               ||  :  :||: |:|  : :  |||||   | :| :||||| |:|  |||:  |||||:|
Db         356 GCATMDENIPSMEMCDQRHNITMCPLCDKTCSYWKMSSACATARASHLFDNPATVFFSVF 415

Qy         430 MALWAVLLLEYWKRKSATLAYRWDCSDYEDTEERPRPQFAA-----SAPMTAPNPITGED 484
               |||||   :|:|||||   | |||| : :|: |: || :: |     |    : |  |  |
Db         416 MALWAATFMEHWKRKQMRLNYRWDLTGFEEEEDHPRAEYEARVLEKSLKKESRNKET--D 473

Qy         485 EPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIVVSRSGNTLLAAWASRI 544
               :     | |    |   | |: |:||    :: :|:||  ||  :: : :  : :
Db         474 KVKLTWRDRFPAYLTNLVSIIFMIAVTFAIVLGVIIYRISMAAALAMNSSPSVRSNIRVT 533

Qy         545 ASLTGSVVNLVFILILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSPV 604
                : |  ::||| |::| ::|  :|  ||: |: :|:  ||:    | |: :||| |:
Db         534 VTATAVIINLVVIILLDEVYGCIARWLTKIEVPKTEKSFEERLIFKAFLLKFVNSYTPIF 593

Qy         605 YIAFFKGRFVGYPGNYHTLF-GVRNEECAAGGCLIELAQELLVIMVGKQVI-NNMQEVLI 662
               |:|||||||| ||:|  :|   | |||| ||||:||  :| :||:|||:| ||: |: |
Db         594 YVAFFKGRFVGRPGDYVYIFRSFRMEECAPGGCLMELCIQLSIIMLGKQLIQNNLFEIGI 653
```

```
Qy         663 PKLKGWWQKFRLRSKKRKAGASAGASQGPWEDDYELVPCEGLFDEYLEMVLQFGFVTIFV 722
               ||:|   :  :|: :           :  :| || | |  ||  ||:||::||||||:||
Db         654 PKMKKLIRYLKLKQQSPPDHEECVKRKQRYEVDYNLEPFAGLTPEYMEMIIQFGFVTLFV 713

Qy         723 AACPLAPLFALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAF 782
               |: |||||||||| :||||||:||| | ||||| ||:||||||::|| |:  |||| |||
Db         714 ASFPLAPLFALLNNIIEIRLDAKKFVTELRRPVAVRAKDIGIWYNILRGIGKLAVIINAF 773

Qy         783 LLAFSSDFLPRA--YYRWTRAHDLRGFLNFTLARAPSSF-------AAAHN--------- 824
               :::|:|||:||    | :::   : ||:| ||    |||          | |
Db         774 VISFTSDFIPRLVYLYMYSKNGTMHGFVNHTL----SSFNVSDFQNGTAPNDPLDLGYEV 829

Qy         825 RTCRYRAFRD---DDGHY--SQTYWNLLAIRLAFVIVFEHVVFSVGRLLDLLVPDIPESV 879
               : |||: :|:    :  |  |: :| :|| |||||||:::|  :   :| ::||||: :
Db         830 QICRYKDYREPPWSENKYDISKDFWAVLAARLAFVIVFQNLVMFMSDFVDWVIPDIPKDI 889

Qy         880 EIKVKREYYLA----------KQALAENEVLFGTNGTKDEQP------------KGSELS 917
                 :: :|  |           || |   |        ||| |             ||
Db         890 SQQIHKEKVLMVELFMREEQDKQQLL--ETWMEKERQKDEPPCNHHNTKACPDSLGSPAP 947

Qy         918 SH 919
               ||
Db         948 SH 949
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RESULT 3
US-10-104-047-2541
; Sequence 2541, Application US/10104047
; Patent No. 6943241
; GENERAL INFORMATION:
;  APPLICANT: HELIX RESEARCH INSTITUTE
;  TITLE OF INVENTION: No. 6943241el full length cDNA
;  FILE REFERENCE: H1-A0105
;  CURRENT APPLICATION NUMBER: US/10/104,047
;  CURRENT FILING DATE:  2002-03-25
;  PRIOR APPLICATION NUMBER:
;  PRIOR FILING DATE:
;  NUMBER OF SEQ ID NOS: 4096
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2541
;   LENGTH: 596
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-104-047-2541

  Query Match             23.3%;  Score 1154;  DB 2;  Length 596;
  Best Local Similarity   41.3%;  Pred. No. 4.1e-116;
  Matches  250;  Conservative  108;  Mismatches  194;  Indels   54;  Gaps   14;

Qy         357 LLPAAVVGTLVFLVGCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAG 415
               | ||| :|  ||| |   :     ::|:| : |   |||:|   |||  || :|  |:
Db           2 LFPAAFIGLFVFLYGVTTLDHSQVSKEVCQATDII-MCPVCDKYCPFMRLSDSCVYAKVT 60
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Qy         416 RLFDHGGTVFFSLFMALWAVLLLEYWKRKSATLAYRWDCSDYEDTEERPRPQFAAS-APM 474
                |||:| ||||::|||:|| : ||:|||: | :|| ||  |:|: ||  |||| |  :
Db          61 HLFDNGATVFFAVFMAVWATVFLEFWKRRRAVIAYDWDLIDWEEEEEEIRPQFEAKYSKK 120

Qy         475 TAPNPITGEDEPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIVVSRSGN 534
                   |||:|: |||     :  |::  :  |  |: ||:  :  |::|| :         :
Db         121 ERMNPISGKPEPYQAFTDKCSRLIVSASGIFFMICVVIAAVFGIVIYRVVTV-------S 173

Qy         535 TLLA-AWA-----SRIASLTGSVV--NLVFILILSKIYVSLAHVLTRWEMHRTQTKFEDA 586
               |  |  ||     |::|: ||: |  |   |::|: :|  :| :||  |  ||::::|::
Db         174 TFAAFKWALIRNNSQVAT-TGTAVCINFCIIMLLNVLYEKVALLLTNLEQPRTESEWENS 232

Qy         587 FTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNYHTLFG-VRNEECAAGGCLIELAQELL 645
               ||||:|:|||||  ||  ||||| ||| |:|| |  |    | |||   ||||:|  ::
Db         233 FTLKMFLFQFVNLNSSTFYIAFFLGRFTGHPGAYLRLINRWRLEECHPSGCLIDLCMQMG 292

Qy         646 VIMVGKQVINNMQEVLIPKLKGWWQKFRLRSKKRKAGASAGASQGPWEDDYELVPCE--G 703
               :||| ||  ||  |:  | :: || :   |  ::: |     |   || || | |    |
Db         293 IIMVLKQTWNNFMELGYPLIQNWWTR---RKVRQEHGPERKISFPQWEKDYNLQPMNAYG 349

Qy         704 LFDEYLEMVLQFGFVTIFVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVAERAQDIG 763
               |||||||:|||||  |||||| ||||| ||||| :|||||| ||| ::|||:| ||:|||
Db         350 LFDEYLEMILQFGFTTIFVAAFPLAPLLALLNNIIEIRLDAYKFVTQWRRPLASRAKDIG 409

Qy         764 IWFHILAGLTHLAVISNAFLLAFSSDFLPRAYYRW----------TRAHDLRGFLNFTLA 813
               ||: || |:  |:||:|||::| :|||:||  | :               : |::| :|:
Db         410 IWYGILEGIGILSVITNAFVIAITSDFIPRLVYAYKYGPCAGQGEAGQKCMVGYVNASLS 469

Qy         814 --------------RAPSSFAAAHNRTCRYRAFRDDDGH-----YSQTYWNLLAIRLAFV 854
                           | |:    : |||| :||         |:  :|::|| ||||:
Db         470 VFRISDFENRSEPESDGSEFSGTPLKYCRYRDYRDPPHSLVPYGYTLQFWHVLAARLAFI 529

Qy         855 IVFEHVVFSVGRLLDLLVPDIPESVEIKVKREYYLAKQALAENEVLFGTNGTKDEQPKGS 914
               |||||:|| :  |:  |:||:|: :  :::|| || :: : | |:       |: :  |
Db         530 IVFEHLVFCIKHLISYLIPDLPKDLRDRMRREKYLIQEMMYEAELERLQKERKERKKNGK 589

Qy         915 ELSSHW 920
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Db         590 AHHNEW 595
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RESULT 4
US-10-104-047-3116
; Sequence 3116, Application US/10104047
; Patent No. 6943241
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. 6943241el full length cDNA
; FILE REFERENCE: H1-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:

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;  NUMBER OF SEQ ID NOS: 4096
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3116
;   LENGTH: 475
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-104-047-3116

  Query Match             18.4%;  Score 912.5;  DB 2;  Length 475;
  Best Local Similarity   38.0%;  Pred. No. 7.3e-90;
  Matches  202;  Conservative   89;  Mismatches  143;  Indels   97;  Gaps   12;

Qy        430 MALWAVLLLEYWKRKSATLAYRWDCSDYEDTEERPRPQFAASAPMTAPNPITGEDEPYFP 489
              ||:|| : ||:|||: | :|| ||  |:|: |
Db          1 MAVWATVFLEFWKRRRAVIAYDWDLIDWEEEE---------------------------- 32

Qy        490 ERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIVVSRSGNTLLA-AWA-----SR 543
                                  : ||:  :  |::|| :         :|  |  ||     |:
Db         33 ------------------ICVVIAAVFGIVIYRVVTV-------STFAAFKWALIRNNSQ 67

Qy        544 IASLTGSVV--NLVFILILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYS 601
              :|: ||: |  |   |::|: :|  :| :||  |  ||::::|::||||:|:|||||  |
Db         68 VAT-TGTAVCINFCIIMLLNVLYEKVALLLTNLEQPRTESEWENSFTLKMFLFQFVNLNS 126

Qy        602 SPVYIAFFKGRFVGYPGNYHTLFG-VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEV 660
              |  ||||| ||| |:|| |  |    | |||   ||||:|  :: :||| ||  ||  |:
Db        127 STFYIAFFLGRFTGHPGAYLRLINRWRLEECHPSGCLIDLCMQMGIIMVLKQTWNNFMEL 186

Qy        661 LIPKLKGWWQKFRLRSKKRKAGASAGASQGPWEDDYELVPCE--GLFDEYLEMVLQFGFV 718
                | :: || :   |  ::: |     |   || || | |    |||||||||:|||||
Db        187 GYPLIQNWWTR---RKVRQEHGPERKISFPQWEKDYNLQPMNAYGLFDEYLEMILQFGFT 243

Qy        719 TIFVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVI 778
              |||||| ||||| ||||| :|||||| ||| ::|||:| ||:||||||: || |:  |:||
Db        244 TIFVAAFPLAPLLALLNNIIEIRLDAYKFVTQWRRPLASRAKDIGIWYGILEGIGILSVI 303

Qy        779 SNAFLLAFSSDFLPRAYYRW----------TRAHDLRGFLNFTLA--------------R 814
              :|||::| :|||:||  | :               : |::| :|:
Db        304 TNAFVIAITSDFIPRLVYAYKYGPCAGQGEAGQKCMVGYVNASLSVFRISDFENRSEPES 363

Qy        815 APSSFAAAHNRTCRYRAFRDDDGH-----YSQTYWNLLAIRLAFVIVFEHVVFSVGRLLD 869
                | |:    : |||| :||         |:  :|::|| ||||:|||||:|| :  |:
Db        364 DGSEFSGTPLKYCRYRDYRDPPHSLVPYGYTLQFWHVLAARLAFIIVFEHLVFCIKHLIS 423

Qy        870 LLVPDIPESVEIKVKREYYLAKQALAENEVLFGTNGTKDEQPKGSELSSHW 920
               |:||:|: :  :::|| || :: : | |:       |: :  |    : |
Db        424 YLIPDLPKDLRDRMRREKYLIQEMMYEAELERLQKERKERKKNGKAHHNEW 474


RESULT 5
US-10-108-260A-4483
; Sequence 4483, Application US/10108260A
; Patent No. 7193069
```

; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. 7193069el full length cDNA
; FILE REFERENCE: H1-A0106
; CURRENT APPLICATION NUMBER: US/10/108,260A
; CURRENT FILING DATE: 2002-03-27
; NUMBER OF SEQ ID NOS: 5458
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4483
;   LENGTH: 642
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-108-260A-4483

  Query Match   18.3%; Score 905; DB 3; Length 642;
  Best Local Similarity   35.4%; Pred. No. 8.2e-89;
  Matches 222; Conservative 106; Mismatches 219; Indels   80; Gaps   17;

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Qy          26 GLYCRDQAHAERWAMT--SETSSGSHCARSRMLRRRAQEEDSTVLIDVSPPEAEKRGSYG 83
               ||| ||      : :    :  ||     :| | || |  |:               |
Db          24 GLYFRDGRRKVDYILVYHHKRPSG-----NRTLVRRVQHSDTP--------------SGA 64

Qy          84 STAHASEPGGQQAAACRAGSPAKPRIADFVLVWEEDLKLDRQQDSAARDRTDMHRTWRET 143
                :     |   : |:  |||   |               :|  :|          |  ||
Db          65 RSVKQDHPLPGKGASLDAGSGEPP--------------MDYHEDD--------KRFRREE 102

Qy         144 FLDNLRAAGLCVDQQDVQDGNTTVH---YALLSASWAVLCYYAEDLRLKLPLQELPNQAS 200
               :  ||  ||| ::    :| :| :|   :  : | | |||  || |:||:| ::: :
Db         103 YEGNLLEAGLELE----RDEDTKIHGVGFVKIHAPWNVLCREAEFLKLKMPTKKMYH--I 156

Qy         201 NWSAGLLAWLGIPNVLLEVVPDVPPEYYSCR----------FRVNKLPRFLGSDNQDTFF 250
               | : |||    | :|| ::   : |:    |          |   |   |  || :|:||
Db         157 NETRGLLK--KINSVLQKITDPIQPKVAEHRPQTMKRLSYPFSREKQHLFDLSD-KDSFF 213

Qy         251 TSTKRHQILFEILAKTPYGHEKKNLLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRL 310
                |  |  |::||| :|     | : :||  ||| || :||:|||| :       :
Db         214 DSKTRSTIVYEILKRTTCTKAKYS-MGITSLLANGVYAAAYPLHDGDY-----NGENVEF 267

Qy         311 NQRQVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLV 370
               | |::|:: |||:| : |||:| ||:|||||: ||||||| ||  |:||::|| :|||
Db         268 NDRKLLYEEWARYGVFYKYQPIDLVRKYFGEKIGLYFAWLGVYTQMLIPASIVGIIVFLY 327

Qy         371 GCFLVFSDIPTQELCGSKDSFEMCPLC-LDCPFWLLSSACALAQAGRLFDHGGTVFFSLF 429
               ||  :  :||: |:|  : :  |||||   | :| :||||| |:|  |||:  |||||:|
Db         328 GCATMDENIPSMEMCDQRHNITMCPLCDKTCSYWKMSSACATARASHLFDNPATVFFSVF 387

Qy         430 MALWAVLLLEYWKRKSATLAYRWDCSDYEDTEERPRPQFAA-----SAPMTAPNPITGED 484
               |||||   :|:||||   | |||| : :|: |: || :: |     |    : |  |  |
Db         388 MALWAATFMEHWKRKQMRLNYRWDLTGFEEEEDHPRAEYEARVLEKSLKKESRNKET--D 445

Qy         485 EPYFPERSRARRMLAGSVVIVVMVAVVVMCLVSIILYRAIMAIVVSRSGNTLLAAWASRI 544
               :     | |    |   | |: |:||    :: :|:||  ||  :: : :  : :
Db         446 KVKLTWRDRFPAYLTNLVSIIFMIAVTFAIVLGVIIYRISMAAALAMNSSPSVRSNIRVT 505
```

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Qy         545 ASLTGSVVNLVFILILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSPV 604
                : |  ::||| |::| ::|  :|  ||: |: :|:  ||:    | |: :||| |:
Db         506 VTATAVIINLVVIILLDEVYGCIARWLTKIEVPKTEKSFEERLIFKAFLLKFVNSYTPIF 565

Qy         605 YIAFFKGRFVGYPGNYHTLF-GVRNEE 630
               |:|||||||| ||:|  :|   | ||
Db         566 YVAFFKGRFVGRPGDYVYIFRSFRMEE 592


RESULT 6
US-09-270-767-45552
; Sequence 45552, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 45552
;   LENGTH: 425
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
;   FEATURE:
;   OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-45552

  Query Match             16.1%;  Score 796;  DB 2;  Length 425;
  Best Local Similarity   41.1%;  Pred. No. 3.4e-77;
  Matches  171;  Conservative   85;  Mismatches  128;  Indels   32;  Gaps    9;

Qy         443 RKSATLAYRWDCSDYEDTEERPRPQFAA---SAPMTAPNPITGEDEPYFP-ERSRARRML 498
               | || : :||| : ::  || ||||: |     | |  : :|   ||  |  | :    :
Db           1 RYSAEITHRWDLTGFDVHEEHPRPQYLARLEHIPPTRVDYVTNIKEPTVPFWRMKLPATV 60

Qy         499 AGSVVIVVMVAVVVMCLVSIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVVNLVFIL 558
                   |::::::|:  : |::::::||  |   :    : :  : |  :|: : : |||  :
Db          61 FSFSVVLLLIALAFVALLAVVVYRMSMLAALKVGASPMTTSSAIVLATASAAFVNLCLLY 120

Qy         559 ILSKIYVSLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPG 618
               ||: :|  ||  ||  || ||||:|:|: |||::: ||||:|:|  |||||||:|||:||
Db         121 ILNYMYNHLAEYLTELEMWRTQTQFDDSLTLKIYLLQFVNYYASIFYIAFFKGKFVGHPG 180

Qy         619 NYHTLFGVRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLIPKLKGWWQKFRLRSKK 678
                |: ||  | |||::|||| ||  :| :|||||  | : || :|    :|:|
Db         181 EYNKLFDYRQEECSSGGCLTELCIQLAIIMVGKQAFNTILEVYLPM---FWRKV----LA 233

Qy         679 RKAGASAGASQGP---------WEDDYELVP--CEGLFDEYLEMVLQFGFVTIFVAACPL 727
                : | |   :  |         |  |::|:     ||| ||||||||:||||||||| ||
Db         234 IQVGLSRLFNNTPNPDKTKDERWMRDFKLLDWGARGLFPEYLEMVLQYGFVTIFVAAFPL 293
```

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Qy         728 APLFALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLLAFS 787
               || |||||| :|:||||:| :  ::|||::| :|||:|: ||  :  |:||:| |::||:
Db         294 APFFALLNNILEMRLDAKKLLTHHKRPVSQRVRDIGVWYRILDCIGKLSVITNGFIIAFT 353

Qy         788 SDFLPR-AYYRWTRAHDLRGFLNFTLAR-----APSSFAAAHN----RTCRYRAFR 833
               || :||   :   :   | |:||||||      :|: :: | :     ||||  ||
Db         354 SDMIPRLVRHXVNKQGTLDGYLNFTLSEFKVIDSPTLYSLAGDLSNITTCRYTDFR 409


RESULT 7
US-10-108-260A-3990
; Sequence 3990, Application US/10108260A
; Patent No. 7193069
; GENERAL INFORMATION:
;  APPLICANT: HELIX RESEARCH INSTITUTE
;  TITLE OF INVENTION: No. 7193069el full length cDNA
;  FILE REFERENCE: H1-A0106
;  CURRENT APPLICATION NUMBER: US/10/108,260A
;  CURRENT FILING DATE:  2002-03-27
;  NUMBER OF SEQ ID NOS: 5458
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3990
;   LENGTH: 483
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-108-260A-3990

  Query Match             13.8%;  Score 684.5;  DB 3;  Length 483;
  Best Local Similarity   35.1%;  Pred. No. 6.7e-65;
  Matches  171;  Conservative   95;  Mismatches  168;  Indels   53;  Gaps   14;

Qy         479 PITGEDE--------PYFPERSRARRMLAGSVVIVVMVAVVVMCLV-----SIILYRAIM 525
               |   |:|        | :  |      |  :|::|  : ::::||:      :::|| :
Db           2 PAVSEEEMALQLINCPDYKLRPYQHSYLRSTVILV--LTLLMICLMIGMAHVLVVYRVLA 59

Qy         526 AIVVSRSGNTLLAAWASRIASLTGSVVNLVFILILSKIYVSLAHVLTRWEMHRTQTKFED 585
               : : | |    |    :    :||::|: | |:|::||   :|  |  :|| || :: |
Db          60 SALFSSSAVPFLEEQVTTAVVVTGALVHYVTIVIMTKINRRVALKLCDFEMPRTFSERES 119

Qy         586 AFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNYHTLFGV-RNEECAAGGCLIELAQEL 644
                ||:: |  ||   :|| :|||| |  |:||    | |: : ||| | ||:::|  ::
Db         120 RFTIRFFTLQFFTHFSSLIYIAFILGRINGHPGKSTRLAGLWKLEECHASGCMMDLFVQM 179

Qy         645 LVIMVGKQVINNMQEVLIPKLKGWWQKFRLRSKKRKAGASAGASQGP----WEDDYELVP 700
                :||  || ::|  | |:|     |   : ||   :|  |    : |    |  :| | |
Db         180 AIIMGLKQTLSNCVEYLVP-----WVTHKCRS--LRASESGHLPRDPELRDWRRNYLLNP 232

Qy         701 CE--GLFDEYLEMVLQFGFVTIFVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVAER 758
                    ||||::||::|:|| |||||| ||||| || :| ||||||| | |   || |  :
Db         233 VNTFSLFDEFMEMMIQYGFTTIFVAAFPLAPLLALFSNLVEIRLDAIKMVWLQRRLVPRK 292

Qy         759 AQDIGIWFHILAGLTHLAVISNAFLLAFSSDFLPRAYYRW----------TRAHDLRGFL 808
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              |:||| |  :|  :  ||||:|  ::||:|:|:||  |::          :    |:|::
Db        293 AKDIGTWLQVLETIGVLAVIANGMVIAFTSEFIPRVVYKYRYSPCLKEGNSTVDCLKGYV 352

Qy        809 NFTLA-------RAPSSFAAAHNRT-CRYRAFRD-DDGHYSQTYWNLLAIRLAFVIVFEH 859
              | :|:       : |     : | | |||| :|:  | ::|: :| ||||||||||:|||
Db        353 NHSLSVFHTKDFQDPDGIEGSENVTLCRYRDYRNPPDYNFSEQFWFLLAIRLAFVILFEH 412

Qy        860 VVFSVGRLLDLLVPDIPESVEIKV-KREYYLAKQALAENEVLFGTNGTKDEQPKGSELSS 918
              |   :  :    |||||:||: || : :|   :: :       |  |     |    : :
Db        413 VALCIKLIAAWFVPDIPQSVKNKVLEVKYQRLREKMWHGRQRLGGVGAGSRPP----MPA 468

Qy        919 HWTPFTV 925
              | || ::
Db        469 HPTPASI 475


RESULT 8
US-10-108-260A-3644
; Sequence 3644, Application US/10108260A
; Patent No. 7193069
; GENERAL INFORMATION:
;  APPLICANT: HELIX RESEARCH INSTITUTE
;  TITLE OF INVENTION: No. 7193069el full length cDNA
;  FILE REFERENCE: H1-A0106
;  CURRENT APPLICATION NUMBER: US/10/108,260A
;  CURRENT FILING DATE:  2002-03-27
;  NUMBER OF SEQ ID NOS: 5458
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3644
;   LENGTH: 660
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-108-260A-3644

  Query Match             12.0%;  Score 594.5;  DB 3;  Length 660;
  Best Local Similarity   24.1%;  Pred. No. 8.1e-55;
  Matches  171;  Conservative  122;  Mismatches  231;  Indels  185;  Gaps   20;

Qy        228 YSCRFRVNKLPRFLG-SDNQDTFFTSTKRHQILFEILAKTPYGHEKKNLLG--------- 277
              :: | | |    | |  || | | |  :   |:          || :||
Db        100 FTYRTRQN----FKGFDDNNDDFLTMAECQFII---------KHELENLRAKDEKMIPGY 146

Qy        278 -----------IHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQRQVLFQHW-ARWGK 325
                        : :||  |::   |||||                  : |   |  |:
Db        147 PQAKLYPGKSLLRRLLTSGIVIQVFPLHDS--------------EALKKLEDTWYTRFAL 192

Qy        326 WNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELC 385
              ||||:| :| |||| :|||| :| ::|  |:| ||:|
Db        193 --KYQPIDSIRGYFGETIALYFGFLEYFTFALIPMAVIG--------------------- 229

Qy        386 GSKDSFEMCPLCLDCPFWLLSSACALAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKS 445
                          |::|              |:   | |: |  :|: ::|| |||
Db        230 --------------LPYYLFVWE----------DYDKYVIFASFNLIWSTVILELWKRGC 265
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Qy         446 ATLAYRWDCSDYEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIV 505
               | : |||     :   | ||| |     :   | |||::|| :|   |  |:   |:  |
Db         266 ANMTYRWGTLLMKRKFEEPRPGFHG---VLGINSITGKEEPLYPSYKRQLRIYLVSLPFV 322

Qy         506 VMVAVVVMCLVSIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVVNLVFILILSKIYV 565
                :     : :: |     : |: :  :     : | | :     |::  : | |::::|
Db         323 CLCLYFSLYVMMIYFDMEVWALGLHENSG---SEWTS-VLLYVPSIIYAIVIEIMNRLYR 378

Qy         566 SLAHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNYHTLFG 625
                 |  || || || :: :::   ||| :| |:| ::|  ||||
Db         379 YAAEFLTSWENHRLESAYQNHLILKVLVFNFLNCFASLFYIAFV---------------- 422

Qy         626 VRNEECAAGGCLIELAQELLVIMVGKQVINNMQEVLIPKLKGWW--QKFRLRSKKRKAGA 683
               ::: :         | | |  :::  |::| : |  :|    :|  :|  :| |::
Db         423 LKDMKL--------LRQSLATLLITSQILNQIMESFLP----YWLQRKHGVRVKRKVQAL 470

Qy         684 SAGASQGPWED---DYELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFALLNNWVEI 740
                |      :|    : |:    | ||:|||: ||||:|::|    |||  ||:|||: |:
Db         471 KADIDATLYEQVILEKEMGTYLGTFDDYLELFLQFGYVSLFSCVYPLAAAFAVLNNFTEV 530

Qy         741 RLDARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLLAFSSDFLPRAYYRWTR 800
                 || |    ::|| :| : :||:|      :: ::|::|  |:  |       | :  ::
Db         531 NSDALKMCRVFKRPFSEPSANIGVWQLAFETMSVISVVTNCALIGMSPQV--NAVFPESK 588

Qy         801 AHDLRGFLNFTLARAPSSFAAAHNRTCRYRAFRDDDGHYSQTYWNLLAIRLAFVIVFEHV 860
               | ||                                                :  |:  ||
Db         589 A-DL-----------------------------------------------ILIVVAVEHA 601

Qy         861 VFSVGRLLDLLVPDIPESVEIKVKREYYLAKQALAENEVLFGTNGTKDE 909
               : ::  :|   :|| |  :::|: |  : : :|| : ::   |   |:|
Db         602 LLALKFILAFAIPDKPRHIQMKLARLEFESLEALKQQQMKLVTENLKEE 650
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```
RESULT 9
US-10-100-683-7209
; Sequence 7209, Application US/10100683
; Patent No. 7368531
; GENERAL INFORMATION:
;  APPLICANT: Rosen, et al.
;  TITLE OF INVENTION: Human Secreted Proteins
;  FILE REFERENCE: PS900
;  CURRENT APPLICATION NUMBER: US/10/100,683
;  CURRENT FILING DATE:  2002-03-19
;  PRIOR APPLICATION NUMBER: US 60/040,162
;  PRIOR FILING DATE: 1997-03-07
;  PRIOR APPLICATION NUMBER: US 60/043,576
;  PRIOR FILING DATE: 1997-04-11
;  PRIOR APPLICATION NUMBER: US 60/047,601
;  PRIOR FILING DATE: 1997-05-23
;  PRIOR APPLICATION NUMBER: US 60/056,845
;  PRIOR FILING DATE: 1997-08-22
;  PRIOR APPLICATION NUMBER: US 60/043,580
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;  PRIOR FILING DATE: 1997-04-11
;  PRIOR APPLICATION NUMBER: US 60/047,599
;  PRIOR FILING DATE: 1997-05-23
;  PRIOR APPLICATION NUMBER: US 60/056,664
;  PRIOR FILING DATE: 1997-08-22
;  PRIOR APPLICATION NUMBER: US 60/043,314
;  PRIOR FILING DATE: 1997-04-11
;  PRIOR APPLICATION NUMBER: US 60/047,632
;  PRIOR FILING DATE: 1997-05-23
;  PRIOR APPLICATION NUMBER: US 60/056,892
;  PRIOR FILING DATE: 1997-08-22
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 13468
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7209
;   LENGTH: 257
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-100-683-7209

  Query Match             9.2%;  Score 455.5;  DB 3;  Length 257;
  Best Local Similarity   42.2%;  Pred. No. 2.5e-40;
  Matches  108;  Conservative   41;  Mismatches   56;  Indels   51;  Gaps    9;

Qy        709 LEMVLQFGFVTIFVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHI 768
              :||::|||||:|||: ||||||||||| :||||||:||| | ||||| ||:||||||::|
Db          1 MEMIIQFGFVTLFVASFPLAPLFALLNNIIEIRLDAKKFVTELRRPVAVRAKDIGIWYNI 60

Qy        769 LAGLTHLAVISNAFLLAFSSDFLPRA--YYRWTRAHDLRGFLNFTLARAPSSF------- 819
              | |:  |||| |||:::|:|||:||    | :::   : ||:| ||    |||
Db         61 LRGIGKLAVIINAFVISFTSDFIPRLVYLYMYSKNGTMHGFVNHTL----SSFNVSDFQN 116

Qy        820 AAAHN---------RTCRYRAFRD---DDGHY--SQTYWNLLAIRLAFVIVFEHVVFSVG 865
                | |         : |||: :|:    :  |  |: :| :|| ||||||||:::|  :
Db        117 GTAPNDPLDLGYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAFVIVFQNLVMFMS 176

Qy        866 RLLDLLVPDIPESVEIKVKREYYLA----------KQALAENEVLFGTNGTKDEQP---- 911
              :| ::||||: :  :: :|  |           || |   |        ||| |
Db        177 DFVDWVIPDIPKDISQQIHKEKVLMVELFMREEQDKQQLL--ETWMEKERQKDEPPCNHH 234

Qy        912 --------KGSELSSH 919
                     ||   ||
Db        235 NTKACPDSLGSPAPSH 250


RESULT 10
US-11-001-793-7209
; Sequence 7209, Application US/11001793
; Patent No. 7411051
; GENERAL INFORMATION:
;  APPLICANT: Rosen, et al.
;  TITLE OF INVENTION: Human Secreted Proteins
;  FILE REFERENCE: PS900
```

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;  CURRENT APPLICATION NUMBER: US/11/001,793
;  CURRENT FILING DATE:  2004-12-02
;  PRIOR APPLICATION NUMBER: US/10/100,683
;  PRIOR FILING DATE: 2002-03-19
;  PRIOR APPLICATION NUMBER: US 60/040,162
;  PRIOR FILING DATE: 1997-03-07
;  PRIOR APPLICATION NUMBER: US 60/043,576
;  PRIOR FILING DATE: 1997-04-11
;  PRIOR APPLICATION NUMBER: US 60/047,601
;  PRIOR FILING DATE: 1997-05-23
;  PRIOR APPLICATION NUMBER: US 60/056,845
;  PRIOR FILING DATE: 1997-08-22
;  PRIOR APPLICATION NUMBER: US 60/043,580
;  PRIOR FILING DATE: 1997-04-11
;  PRIOR APPLICATION NUMBER: US 60/047,599
;  PRIOR FILING DATE: 1997-05-23
;  PRIOR APPLICATION NUMBER: US 60/056,664
;  PRIOR FILING DATE: 1997-08-22
;  PRIOR APPLICATION NUMBER: US 60/043,314
;  PRIOR FILING DATE: 1997-04-11
;  PRIOR APPLICATION NUMBER: US 60/047,632
;  PRIOR FILING DATE: 1997-05-23
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 13468
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7209
;   LENGTH: 257
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-001-793-7209

  Query Match             9.2%;  Score 455.5;  DB 3;  Length 257;
  Best Local Similarity   42.2%;  Pred. No. 2.5e-40;
  Matches  108;  Conservative   41;  Mismatches   56;  Indels   51;  Gaps    9;

Qy        709 LEMVLQFGFVTIFVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHI 768
              :||::|||||:|||: |||||||||| :|||||:||| | ||||| ||:||||||:|
Db          1 MEMIIQFGFVTLFVASFPLAPLFALLNNIIEIRLDAKKFVTELRRPVAVRAKDIGIWYNI 60

Qy        769 LAGLTHLAVISNAFLLAFSSDFLPRA--YYRWTRAHDLRGFLNFTLARAPSSF------- 819
              | |:  |||| |||:::|:|||:||    | :::   : ||:| ||    |||
Db         61 LRGIGKLAVIINAFVISFTSDFIPRLVYLYMYSKNGTMHGFVNHTL----SSFNVSDFQN 116

Qy        820 AAAHN---------RTCRYRAFRD---DDGHY--SQTYWNLLAIRLAFVIVFEHVVFSVG 865
                | |         : |||: :|:    :  |  |: :| :|| ||||||||:::|  :
Db        117 GTAPNDPLDLGYEVQICRYKDYREPPWSENKYDISKDFWAVLAARLAFVIVFQNLVMFMS 176

Qy        866 RLLDLLVPDIPESVEIKVKREYYLA----------KQALAENEVLFGTNGTKDEQP---- 911
              :| ::||||: :  :: :|  |            || |   |         ||| |
Db        177 DFVDWVIPDIPKDISQQIHKEKVLMVELFMREEQDKQQLL--ETWMEKERQKDEPPCNHH 234

Qy        912 --------KGSELSSH 919
                      ||   ||
```

```
Db        235 NTKACPDSLGSPAPSH 250


RESULT 11
US-09-876-997-457
; Sequence 457, Application US/09876997
; Patent No. 7060479
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, Jean Baptiste
;  APPLICANT:  Bougueleret, Lydie
;  APPLICANT:  Jobert, Severin
;  TITLE OF INVENTION: FULL-LENGTH HUMAN cDNAs ENCODING POTENTIALLY SECRETED PROTEINS
;  FILE REFERENCE: 78.US4.CIP
;  CURRENT APPLICATION NUMBER: US/09/876,997
;  CURRENT FILING DATE:  2001-06-08
;  PRIOR APPLICATION NUMBER: US 09/731,872
;  PRIOR FILING DATE: 2000-12-07
;  PRIOR APPLICATION NUMBER: US 60/187,470
;  PRIOR FILING DATE: 2000-03-06
;  PRIOR APPLICATION NUMBER: US 60/169,629
;  PRIOR FILING DATE: 1999-12-08
;  NUMBER OF SEQ ID NOS: 482
;  SOFTWARE: Patent.pm
; SEQ ID NO 457
;   LENGTH: 393
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-876-997-457

  Query Match             8.3%;  Score 411.5;  DB 3;  Length 393;
  Best Local Similarity   23.8%;  Pred. No. 3.5e-35;
  Matches  111;  Conservative   95;  Mismatches  172;  Indels   89;  Gaps   11;

Qy        448 LAYRWDCSDYEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVM 507
              : |||     :   | ||| |     :   | |||::|| :|   |  |:   |:  | :
Db          1 MTYRWGTLLMKRKFEEPRPGFHG---VLGINSITGKEEPLYPSYKRQLRIYLVSLPFVCL 57

Qy        508 VAVVVMCLVSIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVVNLVFILILSKIYVSL 567
                   : :: |     : |: :  :     : | | :     |::  : | |::::|
Db         58 CLYFSLYVMMIYFDMEVWALGLHENSG---SEWTS-VLLYVPSIIYAIVIEIMNRLYRYA 113

Qy        568 AHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNYHTLFGVR 627
              |  || || || :: :::   ||| :| |:| ::|  ||||                 ::
Db        114 AEFLTSWENHRLESAYQNHLILKVLVFNFLNCFASLFYIAFV----------------LK 157

Qy        628 NEECAAGGCLIELAQELLVIMVGKQVINNMQEVLIPKLKGWW--QKFRLRSKKRKAGASA 685
              : :          | | |  :::  |::| : |  :|    :|  :|  :| |::     |
Db        158 DMKL--------LRQSLATLLITSQILNQIMESFLP----YWLQRKHGVRVKRKVQALKA 205

Qy        686 GASQGPWED---DYELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFALLNNWVEIRL 742
                     :|    : |:    | ||:|||: ||||:|::|    |||  ||:|||: |:
Db        206 DIDATLYEQVILEKEMGTYLGTFDDYLELFLQFGYVSLFSCVYPLAAAFAVLNNFTEVNS 265
```

```
Qy         743 DARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLLAFSSDFLPRAYYRWTRAH 802
               || |    ::|| :| : :||:|      :: ::|::|  |:  |      | :  ::|
Db         266 DALKMCRVFKRPFSEPSANIGVWQLAFETMSVISVVTNCALIGMSPQV--NAVFPESKA- 322

Qy         803 DLRGFLNFTLARAPSSFAAAHNRTCRYRAFRDDDGHYSQTYWNLLAIRLAFVIVFEHVVF 862
               ||                                                :  |:  || :
Db         323 DL-----------------------------------------------ILIVVAVEHALL 336

Qy         863 SVGRLLDLLVPDIPESVEIKVKREYYLAKQALAENEVLFGTNGTKDE 909
               ::  :|   :|| |  :::|: |  : : :|| : ::   |   |:|
Db         337 ALKFILAFAIPDKPRHIQMKLARLEFESLEALKQQQMKLVTENLKEE 383
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RESULT 12
US-10-643-836-457
; Sequence 457, Application US/10643836
; Patent No. 7271243
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean Baptiste
; APPLICANT: Bougueleret, Lydie
; APPLICANT: Jobert, Severin
; TITLE OF INVENTION: FULL-LENGTH HUMAN cDNAs ENCODING POTENTIALLY SECRETED PROTEINS
; FILE REFERENCE: 78.US3.REG
; CURRENT APPLICATION NUMBER: US/10/643,836
; CURRENT FILING DATE: 2003-08-19
; PRIOR APPLICATION NUMBER: US/09/731,872
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,629
; PRIOR FILING DATE: 1999-12-08
; PRIOR APPLICATION NUMBER: US 60/187,470
; PRIOR FILING DATE: 2000-03-06
; NUMBER OF SEQ ID NOS: 482
; SOFTWARE: Patent.pm
; SEQ ID NO 457
;   LENGTH: 393
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-643-836-457

  Query Match   8.3%; Score 411.5; DB 3; Length 393;
  Best Local Similarity   23.8%; Pred. No. 3.5e-35;
  Matches 111; Conservative   95; Mismatches 172; Indels   89; Gaps   11;

```
Qy         448 LAYRWDCSDYEDTEERPRPQFAASAPMTAPNPITGEDEPYFPERSRARRMLAGSVVIVVM 507
               : |||     :   | ||| |     :   | |||::|| :|   |  |:   |:  | :
Db           1 MTYRWGTLLMKRKFEEPRPGFHG---VLGINSITGKEEPLYPSYKRQLRIYLVSLPFVCL 57

Qy         508 VAVVVMCLVSIILYRAIMAIVVSRSGNTLLAAWASRIASLTGSVVNLVFILILSKIYVSL 567
                    : :: |     : |: :  :     : | | :     |::  : | |::::|
Db          58 CLYFSLYVMMIYFDMEVWALGLHENSG---SEWTS-VLLYVPSIIYAIVIEIMNRLYRYA 113

Qy         568 AHVLTRWEMHRTQTKFEDAFTLKVFIFQFVNFYSSPVYIAFFKGRFVGYPGNYHTLFGVR 627
               |  || || || :: :::   ||| :| |:| ::|  ||||                ::
```

```
Db         114 AEFLTSWENHRLESAYQNHLILKVLVFNFLNCFASLFYIAFV----------------LK 157

Qy         628 NEECAAGGCLIELAQELLVIMVGKQVINNMQEVLIPKLKGWW--QKFRLRSKKRKAGASA 685
               : :          | | |  :::  |::| : |  :|    :|  :|  :| |::     |
Db         158 DMKL--------LRQSLATLLITSQILNQIMESFLP----YWLQRKHGVRVKRKVQALKA 205

Qy         686 GASQGPWED---DYELVPCEGLFDEYLEMVLQFGFVTIFVAACPLAPLFALLNNWVEIRL 742
                     :|    : |:    | ||:|||: ||||:|::|    |||  ||:|||: |:
Db         206 DIDATLYEQVILEKEMGTYLGTFDDYLELFLQFGYVSLFSCVYPLAAAFAVLNNFTEVNS 265

Qy         743 DARKFVCEYRRPVAERAQDIGIWFHILAGLTHLAVISNAFLLAFSSDFLPRAYYRWTRAH 802
               || |    ::|| :| : :||:|      :: ::|::|  |:  |      | :  ::|
Db         266 DALKMCRVFKRPFSEPSANIGVWQLAFETMSVISVVTNCALIGMSPQV--NAVFPESKA- 322

Qy         803 DLRGFLNFTLARAPSSFAAAHNRTCRYRAFRDDDGHYSQTYWNLLAIRLAFVIVFEHVVF 862
               ||                                          :  |:  || :
Db         323 DL-----------------------------------------ILIVVAVEHALL 336

Qy         863 SVGRLLDLLVPDIPESVEIKVKREYYLAKQALAENEVLFGTNGTKDE 909
               ::  :|   :|| |  :::|: |  : : :|| : ::   |   |:|
Db         337 ALKFILAFAIPDKPRHIQMKLARLEFESLEALKQQQMKLVTENLKEE 383
```

RESULT 13
US-09-270-767-61064
; Sequence 61064, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 61064
;   LENGTH: 215
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-61064

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  Query Match             8.0%;  Score 396.5;  DB 2;  Length 215;
  Best Local Similarity   43.2%;  Pred. No. 5.3e-34;
  Matches   89;  Conservative   36;  Mismatches   54;  Indels   27;  Gaps    6;

Qy         648 MVGKQVINNMQEVLIPKLKGWWQKFRLRSKKRKAGASAGASQGP---------WEDDYEL 698
               |||||  | : || :|    :|:|        : | |   :  |         |  |::|
Db           1 MVGKQAFNTILEVYLPM---FWRKV----LAIQVGLSRLFNNTPNPDKTKDERWMRDFKL 53

Qy         699 VP--CEGLFDEYLEMVLQFGFVTIFVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVA 756
               :     ||| |||||||:|||||||| |||| |||||| :|:||||:| :  ::||||:
Db          54 LDWGARGLFPEYLEMVLQYGFVTIFVAAFPLAPFFALLNNILEMRLDAKKLLTHHKRPVS 113
```

```
Qy         757 ERAQDIGIWFHILAGLTHLAVISNAFLLAFSSDFLPRAYYRWTRAHDLRGFLNFTLAR-- 814
               :| :|||:|: ||  :  |:||:| |::||:|| :||      :   | |:||||||:
Db         114 QRVRDIGVWYRILDCIGKLSVITNGFIIAFTSDMIPRLVRHVNKQGTLDGYLNFTLSEFK 173

Qy         815 ---APSSFAAAHN----RTCRYRAFR 833
                  :|: :: | :     ||||  ||
Db         174 VIDSPTLYSLAGDLSNITTCRYTDFR 199


RESULT 14
US-09-270-767-32253
; Sequence 32253, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 32253
;   LENGTH: 366
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-32253

  Query Match             7.1%;  Score 353;  DB 2;  Length 366;
  Best Local Similarity   32.4%;  Pred. No. 7.7e-29;
  Matches   95;  Conservative   56;  Mismatches  104;  Indels   38;  Gaps    9;

Qy         108 RIADFVLVWEEDLKLDRQQDSAARDRTDMHRT-WRETFLDNLRAAGLCVD--QQDVQDGN 164
               |  |||| :  :          | : |::  |  |  |  || : || |:  |:|
Db          93 RSIDFVLAYRIN----------AHEPTELENTEKRRVFEANLISQGLEVESSQKD----- 137

Qy         165 TTVHYALLSASWAVLCYYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVL------LE 218
                 : :  : |   ||  ||| |:|::|::|:|  :    :    :  : :|       :
Db         138 -QIWFVKIHAPLEVLRRYAEILKLRMPMKEIPGMSVVNRSTKSVFSSLKHVFQFFLRNIY 196

Qy         219 VVPDVPPEYYSCRFRV--NKLPRFLGSDNQDTFFTSTKRHQILFEIL--AKTPYGHEKKN 274
               |  :: |:  : ||    ::   :|    || |||:  | :|:  ||   : |  ::
Db         197 VDEEIFPK-RAHRFTAIYSRDKEYLFDIRQDCFFTTAVRSRIVEFILDRQRFPAKNQHDM 255

Qy         275 LLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDH 334
                 || :|:|||| |||:|||||                | :|::|||   || :|||||
Db         256 AFGIERLIAEGVYSAAYPLHDGEITETG--------TMRALLYKHWASVPKWYRYQPLDD 307

Qy         335 VRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGS 387
               :: ||| |: |||||||:||  || |::|| : ||   | : : :| :::| |
Db         308 IKEYFGVKIGLYFAWLGYYTYMLLLASIVGVICFLYSWFSLKNYVPVKDICQS 360


RESULT 15
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```
US-09-270-767-47470
; Sequence 47470, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 47470
;   LENGTH: 366
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-270-767-47470

  Query Match             7.1%;  Score 353;  DB 2;  Length 366;
  Best Local Similarity   32.4%;  Pred. No. 7.7e-29;
  Matches   95;  Conservative   56;  Mismatches  104;  Indels   38;  Gaps    9;

Qy        108 RIADFVLVWEEDLKLDRQQDSAARDRTDMHRT-WRETFLDNLRAAGLCVD--QQDVQDGN 164
              |  |||| :  :          | : |::  |  |  |  || : || |:  |:|
Db         93 RSIDFVLAYRIN----------AHEPTELENTEKRRVFEANLISQGLEVESSQKD----- 137

Qy        165 TTVHYALLSASWAVLCYYAEDLRLKLPLQELPNQASNWSAGLLAWLGIPNVL------LE 218
               : :  : |   ||  ||| |:|::|::|:|  :    :    :  : :|       :
Db        138 -QIWFVKIHAPLEVLRRYAEILKLRMPMKEIPGMSVVNRSTKSVFSSLKHVFQFFLRNIY 196

Qy        219 VVPDVPPEYYSCRFRV--NKLPRFLGSDNQDTFFTSTKRHQILFEIL--AKTPYGHEKKN 274
              |  :: |:  : ||    ::   :|    || |||:  | :|:  ||   : |  ::
Db        197 VDEEIFPK-RAHRFTAIYSRDKEYLFDIRQDCFFTTAVRSRIVEFILDRQRFPAKNQHDM 255

Qy        275 LLGIHQLLAEGVLSAAFPLHDGPFKTPPEGPQAPRLNQRQVLFQHWARWGKWNKYQPLDH 334
               || :|:|||| |||:|||||                | :|::|||   || :|||||
Db        256 AFGIERLIAEGVYSAAYPLHDGEITETG--------TMRALLYKHWASVPKWYRYQPLDD 307

Qy        335 VRRYFGEKVALYFAWLGFYTGWLLPAAVVGTLVFLVGCFLVFSDIPTQELCGS 387
              :: ||| |: |||||||:||  || |::|| : ||   | : : :| :::| |
Db        308 IKEYFGVKIGLYFAWLGYYTYMLLLASIVGVICFLYSWFSLKNYVPVKDICQS 360


Search completed: March 17, 2009, 05:04:35
Job time : 160.9 secs
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